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## TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTTORNEY'S DOCKET NUMBER 28185-502-059

| CO  | NCERNING A SUBMISSIO  | U.S. ARPLIGATION NO. (It known see 37 CFR 1.5)   |   |  |  |  |  |  |  |  |
|---|---|--|---|--|--|--|--|--|--|--|
| INTERNATIONAL APPLICATION NO. PCT/GB2004/002980 INTERNATIONAL FILING DATE 09 July 2004 (09.07.2004) |   |  | PRIORITY DATE CLAIMED<br>12 July 2003 (12.07.2003)                            |  |  |  |  |  |  |  |
| TITLE OF<br>IONISIN   | F INVENTION<br>NG RADIATION DETECTOR  |  |   |  |  |  |  |  |  |  |
|   | ANT(S) FOR DO/EO/US<br>HTY, Peter, Trevor; ANDERSON, Mich   | chael, John; PRENDERGAST, David, Jerer   | mv: BENSON, Ian; MORGAN, Russell  |  |  |  |  |  |  |  |
|   |   |  | O/US) the following items and other information:                              |  |  |  |  |  |  |  |
| 1. <b>X</b>   |   |  |   |  |  |  |  |  |  |  |
| 2.  | This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371.   |  |   |  |  |  |  |  |  |  |
| з. 🗌  | This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. |  |   |  |  |  |  |  |  |  |
| 4.  | The US has been elected (Article 31).   |  |   |  |  |  |  |  |  |  |
| 5. <b>X</b>   | A copy of the International Application   | A copy of the International Application as filed (35 U.S.C. 371(c)(2))                   |   |  |  |  |  |  |  |  |
|   | a. is attached hereto (required   | only if not communicated by the Internation  | nal Bureau).  |  |  |  |  |  |  |  |
|   | b. x has been communicated by   | the International Bureau.  |   |  |  |  |  |  |  |  |
|   | c. is not required, as the application  | cation was filed in the United States Receivi  | ing Office (RO/US).   |  |  |  |  |  |  |  |
| 6. $\square$  | An English language translation of the  | e International Application as filed (35 U.S.C   | C. 371(c)(2)).  |  |  |  |  |  |  |  |
|   | a. is attached hereto.  |  |   |  |  |  |  |  |  |  |
| (F)   | •   | tted under 35 U.S.C. 154(d)(4).  |   |  |  |  |  |  |  |  |
| 7. <b>X</b>   | Amendments to the claims of the Inter   | emational Application under PCT Article 19 (   | (35 U.S.C. 371(c)(3))   |  |  |  |  |  |  |  |
|   | a. are attached hereto (require   | red only if not communicated by the Internat   | tional Bureau).   |  |  |  |  |  |  |  |
|   | <del></del>   | by the International Bureau.   |   |  |  |  |  |  |  |  |
|   |   | ever, the time limit for making such amendm  | nents has NOT expired.  |  |  |  |  |  |  |  |
|   | d. K have not been made and wi  |  |   |  |  |  |  |  |  |  |
| 8r.   | An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).   |  |   |  |  |  |  |  |  |  |
| 9.  | An oath or declaration of the inventor(s  | `  | •   |  |  |  |  |  |  |  |
| <b>∳0.</b> □  | An English language translation of the Article 36 (35 U.S.C. 371(c)(5)).  | e annexes of the International Preliminary Ex  | xamination Report under PCT   |  |  |  |  |  |  |  |
| Items   | s 11 to 20 below concern document(s)  | ) or information included:   |   |  |  |  |  |  |  |  |
| 11.   | An Information Disclosure Statement u   | under 37 CFR 1.97 and 1.98.  |   |  |  |  |  |  |  |  |
| 12.   | An assignment document for recording  | g. A separate cover sheet in compliance wit  | th 37 CFR 3.28 and 3.31 is included.  |  |  |  |  |  |  |  |
| 13. 🔀   | A preliminary amendment.  | A preliminary amendment.   |   |  |  |  |  |  |  |  |
| 14.   | An Application Data Sheet under 37 C  | An Application Data Sheet under 37 CFR 1.76.   |   |  |  |  |  |  |  |  |
| 15.   | A substitute specification.   | A substitute specification.  |   |  |  |  |  |  |  |  |
| 16.   |   | A power of attorney and/or change of address letter.                                     |   |  |  |  |  |  |  |  |
| 17.   | A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821- 1.825.   |  |   |  |  |  |  |  |  |  |
| 18.   | A second copy of the published International Application under 35 U.S.C. 154(d)(4).   |  |   |  |  |  |  |  |  |  |
| 19.   | A second copy of the English language<br>Check, Po  | e translation of the international application ostcard, Express Mail Label No. EV494974. | under 35 U.S.C. 154(d)(4).<br>1358US, Published Application, PCT/IB 301, 304; |  |  |  |  |  |  |  |

Check, Postcard, Express Mail Label No. E V4949/4358US, Published Application, PC 1/1B 3U1, 3U4;

Other items or information: PCT/ISA/228; PCT/RO 101; Int. Search Report; IPRP, Filing Date: 12 January 2006 (12.01.2006)

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

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## IAP15 Rec'd PCT/PTO 12 JAN 2006

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| U.S. APPLICAT  | . APPLICATION NO. (if known, see 37 CFR 1.5) INTERNATIONAL APPLICATION NO.    |                        | ATTORNEY'S DOCKET NUMBER                     |                |                       |              |  |  |  |
|--|---|------------------------|--|----------------|-----------------------|--------------|--|--|--|
|  | 20/50458/ PCT/GB2004/002980   |                        |  | 28185-502-059  |                       |              |  |  |  |
|  | The following fees have been submitted  |                        |  |                |                       | PTO USE ONLY |  |  |  |
| 21. 🔀 Basi   | c national fee  | ••••••                 |  | \$300          | \$ 300.00             |              |  |  |  |
| If International p<br>PCT Article 3:   | nination fee<br>reliminary examin<br>3(1)-(4)                                 | \$ 200.00              |  |                |                       |              |  |  |  |
| Search fee (37 C<br>Internatio<br>International Sea  | rch fee<br>FR 1.445(a)(2)) h<br>nal Searching Aut<br>irch Report prepar<br>is | \$ 500.00              |  |                |                       |              |  |  |  |
|  | TOTAL OF 21, 2  | \$ 1000.00             |  |                |                       |              |  |  |  |
| sequence lis   | e for specification<br>sting or computer<br>250 for each addi                 |                        |  |                |                       |              |  |  |  |
| Total Sheets   | Extra Sheets  |                        | additional 50 or fraction to a whole number) | RATE           |                       |              |  |  |  |
| - 100 =  | /50 =   |                        |  | × \$250        | \$ 0.00               |              |  |  |  |
| Surcharge of \$13 claimed priority d   | 0.00 for furnishing ate (37 CFR 1.49)   | \$ 0.00                |  |                |                       |              |  |  |  |
| CLAIMS   | NUMB  | ER FILED               | NUMBER EXTRA                                 | RATE           | \$                    |              |  |  |  |
| Total claims   |   | 60 - 20 =              | 40   | × \$ 50        | \$ 2000.00            |              |  |  |  |
| Independent clair  | ns  | 6 -3=                  | 3  | × \$200        | s 600.00              |              |  |  |  |
| MULTIPLE DEPE  | NDENT CLAIM(S   | + \$360                | \$ 0.00                                      | <del> </del>   |                       |              |  |  |  |
|  |   | \$ 3600.00             | <u> </u>                                     |                |                       |              |  |  |  |
| Applicant cla  | ims small entity st   |                        |  |                |                       |              |  |  |  |
|  |   | \$ 3600.00             |  |                |                       |              |  |  |  |
|  | f <b>\$130.00</b> for furnis<br>ate (37 CFR 1.492                             | \$ 0.00                |  |                |                       |              |  |  |  |
|  |   | \$ 3600.00             |  |                |                       |              |  |  |  |
| Fee for recording by an appropriate  | the enclosed ass<br>cover sheet (37 (   | \$                     |  |                |                       |              |  |  |  |
| \  |   |                        | TOTAL F                                      | EES ENCLOSED = | \$ 3600.00            | , <u> </u>   |  |  |  |
|  |   | Amount to be refunded: | \$   |                |                       |              |  |  |  |
|  |   |                        |  |                | Amount to be charged: | \$           |  |  |  |
| a. A check in the amount of \$ 3600.00 to cover the above fees is enclosed.  |   |                        |  |                |                       |              |  |  |  |
| b. Please charge my Deposit Account No in the amount of \$ to cover the above fees.  A duplicate copy of this sheet is enclosed.   |   |                        |  |                |                       |              |  |  |  |
| c. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit t Account No. 50-0311. A duplicate copy of this sheet is enclosed.                        |   |                        |  |                |                       |              |  |  |  |
| d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. |   |                        |  |                |                       |              |  |  |  |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.               |   |                        |  |                |                       |              |  |  |  |
| SEND ALL CORF  |   | X De                   | _  |                |                       |              |  |  |  |
| A. Jason Miral   | oito, Esq.  | 1290                   |  |                |                       |              |  |  |  |
| Mintz, Levin,  | Cohn, Ferris, Gl  | bert J.                |  |                |                       |              |  |  |  |
| One Financial  |   |                        |  |                |                       |              |  |  |  |
| Boston, MA 02  | 2111  |                        |  |                |                       |              |  |  |  |
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